



SEQUENCE LISTING

RECEIVED

NOV 08 2000

Number

Content

TECH CENTER 1600/2900

SEQ ID No 1	Nucleotides 81-419 of Figure 1
SEQ ID No 2	Full DNA Sequence of Figure 1
SEQ ID No 3	Amino Acids 27-139 of Figure 1
SEQ ID No 4	Full Amino Acid Sequence of Figure 1
SEQ ID No 5	Full DNA Sequence of Figure 3
SEQ ID No 6	Amino Acid Sequence indicated as Reading Frame A in Figure 3
SEQ ID No 7	Amino Acid Sequence indicated as Reading Frame B in Figure 3
SEQ ID No 8	Full DNA Sequence of Figure 21
SEQ ID No 9	Amino Acid Sequence of Figure 23
SEQ ID No 10	Amino Acid Sequence of Figure 24
SEQ ID No 11	DNA Sequence of Splice Variant obtained by using Splice Sites 5'-1 and 3'-1 plus 5'-2 and 3'-3 in Figure 21 (687 bp transcript of Figure 22A)
SEQ ID No 12	DNA Sequence of Splice Variant obtained by using Splice Sites 5'-1 and 3'-2 plus 5'-2 and 3'-3 in Figure 21 (663 bp transcript of Figure 22A)
SEQ ID No 13	DNA Sequence of Splice Variant obtained by using Splice Sites 5'-1 and 3'-3 in Figure 21 (524 bp transcript in Figure 22A)
SEQ ID No 14	DNA Sequence of the Splice Variant obtained by using Splice Sites 5'-1 and 3'-2 plus 5'-2 and 3'-4 in Figure 21 (410 bp transcript in Figure 22A)
SEQ ID No 15	DNA Sequence of Splice Variant obtained by using Splice Sites 5'-1 and 3'-4 in Figure 21 (271 bp transcript in Figure 22A)

SEQUENCE LISTING

RECEIVED

NOV 08 2000

TECH CENTER 1600/2900

<110> Geerts, Hugo
Masure, Stefan
Cik, Miroslav
Meert, Theo
Ver Donk, Luc

<120> Neurotrophic Growth Factor

<130> 50936/702

<140> 09/357,349

<141> 1999-07-14

<150> 9815283.8

<151> 1998-07-14

<150> 09/248,772

<151> 1999-02-12

<150> 09/327,668

<151> 1999-06-08

<160> 15

<170> PatentIn Ver. 2.0

<210> 1

<211> 339

<212> DNA

<213> Homo sapiens

<400> 1

gctggggggcc cgggcagccg cgtcggggca gcggggggcgc ggggctgccg cctgcgctcg 60
cagctgggtgc cgggtgcgcgc gctcggcctg ggccaccgct ccgacgagct ggtgcgtttc 120
cgcttctgca gcggctcctg ccgccgcgcg cgtctctccac acgacctcag cctggccagc 180
ctactgggcg ccggggccct gcgaccgccc ccgggctccc ggcccgtcag ccagccctgc 240
tgccgaccca cgcgctacga agcgggtctcc ttcattggacg tcaacagcac ctggagaacc 300
gtggaccgcc tctccgccac cgctgcggc tgcttgggc 339

<210> 2

<211> 474

<212> DNA

<213> Homo sapiens

<400> 2

cgccgccgca gccttctcgg ccgcgcgccc cgcgcgctgc acccccatct gctcttcccc 60

gcgggggccc gcgggcgcgg gctggggggcc cgggcagccg cgctcgggca gcggggggcgc 120
 ggggctgccg cctgcgctcg cagctggtgc cgggtgcgcgc gctcggcctg ggccaccgct 180
 ccgacgagct ggtgcgtttc cgcttctgca gcggctcctg ccgccgcgcg cgctctccac 240
 acgacctcag cctggccagc ctactgggcg ccggggccct gcgaccgcc ccgggctccc 300
 ggcccgtcag ccagccctgc tgccgacca cgcgctacga agcggctctc ttcattggacg 360
 tcaacagcac ctggagaacc gtggaccgcc tctccgccac cgctgcggc tgctggggt 420
 gagggctcgc tccagggtt tgcagactgg acccttaccg gtggctcttc ctgc 474

<210> 3

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3

Ala Gly Gly Pro Gly Ser Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys
 1 5 10 15

Arg Leu Arg Ser Gln Leu Val Pro Val Arg Ala Leu Gly Leu Gly His
 20 25 30

Arg Ser Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg
 35 40 45

Arg Ala Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala
 50 55 60

Gly Ala Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys
 65 70 75 80

Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser
 85 90 95

Thr Trp Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu
 100 105 110

Gly

<210> 4

<211> 139

<212> PRT

<213> Homo sapiens

<400> 4

Pro Pro Gln Pro Ser Arg Pro Ala Pro Pro Pro Pro Ala Pro Pro Ser
 1 5 10 15

Ala Leu Pro Arg Gly Gly Arg Ala Ala Arg Ala Gly Gly Pro Gly Ser
20 25 30

Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys Arg Leu Arg Ser Gln Leu
35 40 45

Val Pro Val Arg Ala Leu Gly Leu Gly His Arg Ser Asp Glu Leu Val
50 55 60

Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala Arg Ser Pro His
65 70 75 80

Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala Leu Arg Pro Pro
85 90 95

Pro Gly Ser Arg Pro Val Ser Gln Pro Cys Cys Arg Pro Thr Arg Tyr
100 105 110

Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp Arg Thr Val Asp
115 120 125

Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly
130 135

<210> 5
<211> 819
<212> DNA
<213> Homo sapiens

<400> 5
gagtttcccc tccacacagc taggagccca tgcccggcct gatctcagcc cgaggacagc 60
ccctccttga ggtccttcct ccccaagccc acctgggtgc cctctttctc cctgaggctc 120
cacttggtct ctccgcgcag cctgccctgt ggcccacct ggccgctctg gctctgctga 180
gcagcgtcgc agaggcctcc ctgggctccg cgcccgcag cctgcccc cgcgaggcc 240
ccccgcctgt cctggcgtcc ccgcgcggcc acctgccggg taggtgagag ggcgaggggg 300
cggggcgggg ctggcccggg acaccgcgcg tgactgggtc tcattccagg gggacgcacg 360
gcccgtggt gcagtggaag agcccggcgg ccgcgcgcgc agccttctcg gcccgcgccc 420
ccgcgcctg ccccccatc tgctcttccc cgcgggggcc gcgcggcgcg ggctgggggc 480
ccgggcagcc gcgctcgggc agcgggggcg cggggctgcc gcctgcgctc gcagctggtg 540
ccggtgcgcg cgctcggcct gggccaccgc tccgacgagc tgggtgcgtt ccgcttctgc 600
agcggctcct gccgcgcgc gcgctctcca cagcacctca gcctggccag cctactgggc 660
gccggggccc tgcgaccgcc ccggggctcc cgggccgtca gccagccctg ctgccgaccc 720
acgcgctacg aagcggctct cttcatggac gtcaacagca cctggagaac cgtggaccgc 780
ctctccgcc ccgcctgcgg ctgcctgggc tgagggtc 819

<210> 6
<211> 85

<212> PRT

<213> Homo sapiens

<400> 6

Met Pro Gly Leu Ile Ser Ala Arg Gly Gln Pro Leu Leu Glu Val Leu
1 5 10 15

Pro Pro Gln Ala His Leu Gly Ala Leu Phe Leu Pro Glu Ala Pro Leu
20 25 30

Gly Leu Ser Ala Gln Pro Ala Leu Trp Pro Thr Leu Ala Ala Leu Ala
35 40 45

Leu Leu Ser Ser Val Ala Glu Ala Ser Leu Gly Ser Ala Pro Arg Ser
50 55 60

Pro Ala Pro Arg Glu Gly Pro Pro Pro Val Leu Ala Ser Pro Ala Gly
65 70 75 80

His Leu Pro Gly Arg
85

<210> 7

<211> 159

<212> PRT

<213> Homo sapiens

<400> 7

Leu Gly Leu Ile Pro Gly Gly Arg Thr Ala Arg Trp Cys Ser Gly Arg
1 5 10 15

Ala Arg Arg Pro Pro Pro Gln Pro Ser Arg Pro Ala Pro Pro Pro Pro
20 25 30

Ala Pro Pro Ser Ala Leu Pro Arg Gly Gly Arg Ala Ala Arg Ala Gly
35 40 45

Gly Pro Gly Ser Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys Arg Leu
50 55 60

Arg Ser Gln Leu Val Pro Val Arg Ala Leu Gly Leu Gly His Arg Ser
65 70 75 80

Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala
85 90 95

Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala

Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys Cys Arg
 115 120 125

Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp
 130 135 140

Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly
 145 150 155

<210> 8

<211> 1188

<212> DNA

<213> Homo sapiens

<400> 8

ctgatgggcg ctccctggtgt tgatagagat ggaacttggg cttggaggcc tctccacgct 60
 gtcccaactgc ccctggccta ggcggcaggt gagtggttct ccagtgact cctacctggt 120
 actgaggaaa ggcggttga ctggtgaggg agagcagggc ttggcttggg cagcggttag 180
 gtgtgggagg gaaaatggtc agggagggac caggtgaatg ggaggaggag cgggacttct 240
 ctgaatggtc ggtgcactca ggtgattcct ccctgggct ccagaggca gcaaaccat 300
 tatactggaa ctaggcctt tcctgagttt ccctccaca cagctaggag cccatgcccg 360
 gctgatctc agcccagga cagccctcc ttgaggtcct tctcccaa gccacctgg 420
 gtgcctctt tctccctgag gctccacttg gtctctccgc gcagcctgcc ctgtggcca 480
 ccctggcgc tctggtctg ctgagcagcg tcgagaggc ctccctgggc tccgcgccc 540
 gcagcctgc ccccgcgaa ggccccgc ctgtcctggc gtccccgcc ggccacctgc 600
 cgggtaggtg agagggcgag gggcggggc ggggctggcc cgggacaccg cgcgtgactg 660
 ggtctcattc cagggggacg cacggccgc tggcgagtg gaagagcccg gcggcgccg 720
 ccgcagcctt ctgcgcccgc gccccgcgc cctgcacccc catctgctct tccccgagg 780
 ggccgcgcgg cgcgggctgg gggcccgggc agccgcgctc gggcagcggg ggcgcgggg 840
 tgccgcctgc gtcgcagct ggtgccggtg cgcgcgctcg gcctgggcca ccgtccgac 900
 gagctggtgc gtttccgctt ctgcagcggc tctgcgcgc gcgcgcgctc tccacacgac 960
 ctgagcctgg ccagcctact gggcgccggg gccctgcgac cgcggcggg ctcccgccc 1020
 gtcagccagc cctgctgccg acccagcgc tacgaagcgg tctccttcat ggacgtcaac 1080
 agcacctgga gaaccgtgga ccgcctctcc gccaccgct gcggctgcct gggctgagg 1140
 ctgctccag ggctttgcag actggacct taccggtggc tcttctg 1188

<210> 9

<211> 228

<212> PRT

<213> Homo sapiens

<400> 9

Met Glu Leu Gly Leu Gly Gly Leu Ser Thr Leu Ser His Cys Pro Trp
 1 5 10 15

Pro Arg Arg Gln Ala Pro Leu Gly Leu Ser Ala Gln Pro Ala Leu Trp
 20 25 30
 Pro Thr Leu Ala Ala Leu Ala Leu Leu Ser Ser Val Ala Glu Ala Ser
 35 40 45
 Leu Gly Ser Ala Pro Arg Ser Pro Ala Pro Arg Glu Gly Pro Pro Pro
 50 55 60
 Val Leu Ala Ser Pro Ala Gly His Leu Pro Gly Gly Arg Thr Ala Arg
 65 70 75 80
 Trp Cys Ser Gly Arg Ala Arg Arg Pro Pro Pro Gln Pro Ser Arg Pro
 85 90 95
 Ala Pro Pro Pro Pro Ala Pro Pro Ser Ala Leu Pro Arg Gly Gly Arg
 100 105 110
 Ala Ala Arg Ala Gly Gly Pro Gly Ser Arg Ala Arg Ala Ala Gly Ala
 115 120 125
 Arg Gly Cys Arg Leu Arg Ser Gln Leu Val Pro Val Arg Ala Leu Gly
 130 135 140
 Leu Gly His Arg Ser Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly
 145 150 155 160
 Ser Cys Arg Arg Ala Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu
 165 170 175
 Leu Gly Ala Gly Ala Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser
 180 185 190
 Gln Pro Cys Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp
 195 200 205
 Val Asn Ser Thr Trp Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys
 210 215 220
 Gly Cys Leu Gly
 225

<210> 10

<211> 220

<212> PRT

<213> Homo sapiens

<400> 10

Met	Glu	Leu	Gly	Leu	Gly	Gly	Leu	Ser	Thr	Leu	Ser	His	Cys	Pro	Trp
1				5					10					15	
Pro	Arg	Arg	Gln	Pro	Ala	Leu	Trp	Pro	Thr	Leu	Ala	Ala	Leu	Ala	Leu
			20					25					30		
Leu	Ser	Ser	Val	Ala	Glu	Ala	Ser	Leu	Gly	Ser	Ala	Pro	Arg	Ser	Pro
		35					40					45			
Ala	Pro	Arg	Glu	Gly	Pro	Pro	Pro	Val	Leu	Ala	Ser	Pro	Ala	Gly	His
	50					55					60				
Leu	Pro	Gly	Gly	Arg	Thr	Ala	Arg	Trp	Cys	Ser	Gly	Arg	Ala	Arg	Arg
65				70					75						80
Pro	Pro	Pro	Gln	Pro	Ser	Arg	Pro	Ala	Pro	Pro	Pro	Pro	Ala	Pro	Pro
			85						90					95	
Ser	Ala	Leu	Pro	Arg	Gly	Gly	Arg	Ala	Ala	Arg	Ala	Gly	Gly	Pro	Gly
		100					105					110			
Ser	Arg	Ala	Arg	Ala	Ala	Gly	Ala	Arg	Gly	Cys	Arg	Leu	Arg	Ser	Gln
	115					120					125				
Leu	Val	Pro	Val	Arg	Ala	Leu	Gly	Leu	Gly	His	Arg	Ser	Asp	Glu	Leu
	130					135				140					
Val	Arg	Phe	Arg	Phe	Cys	Ser	Gly	Ser	Cys	Arg	Arg	Ala	Arg	Ser	Pro
145				150					155					160	
His	Asp	Leu	Ser	Leu	Ala	Ser	Leu	Leu	Gly	Ala	Gly	Ala	Leu	Arg	Pro
		165						170					175		
Pro	Pro	Gly	Ser	Arg	Pro	Val	Ser	Gln	Pro	Cys	Cys	Arg	Pro	Thr	Arg
		180						185					190		
Tyr	Glu	Ala	Val	Ser	Phe	Met	Asp	Val	Asn	Ser	Thr	Trp	Arg	Thr	Val
	195					200						205			
Asp	Arg	Leu	Ser	Ala	Thr	Ala	Cys	Gly	Cys	Leu	Gly				
	210					215					220				

<210> 11

<211> 766

<212> DNA

<213> Homo sapiens

<400> 11

```
ctgatgggcg ctctggtgt tgatagagat ggaacttga cttggaggcc tctccacgct 60
gtcccactgc ccctggccta ggcggcaggc tccacttggc ctctccgcgc agcctgccct 120
gtggcccacc ctggccgctc tggctctgct gacgagcgtc gcagaggcct ccctgggctc 180
cgcgccccgc agccctgccc cccgcgaagg cccccgcct gtctggcgt ccccgccgg 240
ccacctgccg gggggacgca cggcccgtg gtgcagtga agagcccggc ggccgccgcc 300
gcagccttct cggcccgcgc cccgcgcgc tgcaccccca tctgctcttc ccccgggggg 360
ccgcgcggcg cgggctgggg gcccgggcag ccgcgctcgg gcagcggggg cgcggggctg 420
ccgcctgcgc tcgcagctgg tgccggtgcg cgcgctcggc ctggggccacc gctccgacga 480
gctggtgcgt ttccgcttct gcagcggctc ctgccgcgc gcgcgctctc cacacgacct 540
cagcctggcc agcctactgg gcgcggggc cctgcgaccg ccccggggct cccggcccg 600
cagccagccc tgctgccgac ccacgcgcta cgaagcggtc tccttcattg acgtcaacag 660
cacctggaga accgtggacc gcctctccgc caccgcctgc ggctgcctgg gctgagggct 720
cgctccaggg ctttgacgac tggaccctta ccggtggctc ttcctg 766
```

<210> 12

<211> 742

<212> DNA

<213> Homo sapiens

<400> 12

```
ctgatgggcg ctctggtgt tgatagagat ggaacttga cttggaggcc tctccacgct 60
gtcccactgc ccctggccta ggcggcagcc tgccctgtgg cccaccctgg ccgctctggc 120
tctgctgagc agcgtcgcag aggcctccct gggctccgcg ccccgagcc ctgccccccg 180
cgaaggcccc ccgctgtcc tggcgctccc cgccggccac ctgccggggg gacgcacggc 240
ccgctggtgc agtgggaag cccggcgggc gccgccgag ccttctcggc ccgcgcccc 300
gccgcctgca ccccatctg ctcttccccg cgggggcccgc gcggcgcggg ctggggggcc 360
gggcagccgc gctcgggcag cggggggcgc gggctgccgc ctgcgctcgc agctggtgcc 420
ggtgcgcgcg ctccggcctg gccaccgctc cgacgagctg gtgcgtttcc gcttctgcag 480
cggctcctgc cgccgcgcgc gctctccaca cgacctcagc ctggccagcc tactgggcgc 540
cggggccctg cgaccgcccc cgggctcccg gcccgtcagc cagccctgct gccgaccac 600
gcgctacgaa gcggtctcct tcattggacgt caacagcacc tggagaaccg tggaccgct 660
ctccgccacc gcctgcggct gcctgggctg agggctcgtc ccagggcttt gcagactgga 720
cccttaccgg tggctcttcc tg 742
```

<210> 13

<211> 603

<212> DNA

<213> Homo sapiens

<400> 13

```
ctgatgggcg ctctggtgt tgatagagat ggaacttga cttggaggcc tctccacgct 60
gtcccactgc ccctggccta ggcggcaggg ggacgcacgg cccgctggtg cagtggaga 120
gcccggcggc cgccgcgcga gccttctcgg cccgcgcccc cgccgctgc accccatct 180
gctcttcccc gcggggggcg cgcggcgcg gctggggggc cgggcagccg cgctcgggca 240
gcggggggcg ggggctgccg cctgcgctcg cagctggtgc cgggtgcgcg gctcggcctg 300
ggccaccgct ccgacgagct ggtgcgtttc cgcttctgca gcggctcctg ccgcgcgcgc 360
```

```

cgctctccac acgacctcag cctggccagc ctactgggcg ccggggccct gcgaccgcc 420
ccgggctccc ggcccgtcag ccagccctgc tgccgaccca cgcgctacga agcgggtctcc 480
ttcatggacg tcaacagcac ctggagaacc gtggaccgcc tctccgccac cgctctgcggc 540
tgcctgggct gagggctcgc tccagggtt tgcagactgg acccttaccg gtggctcttc 600
ctg 603

```

<210> 14

<211> 489

<212> DNA

<213> Homo sapiens

<400> 14

```

ctgatgggcg ctcttggtgt tgatagagat ggaacttga cttggaggcc tctccacgct 60
gtcccactgc ccctggccta ggcggcagcc tgccctgtgg cccaccctgg ccgctctggc 120
tctgctgagc agcgctcgag aggcctccct gggctccgcg ccccgagcc ctgccccccg 180
cgaaggcccc ccgctgtcc tggcgcccc cgccggccac ctgccggcgg ctctgcccgc 240
cgcgcgcgct ctccacacga cctcagcctg gccagcctac tgggcgcgcg ggccctgcga 300
ccgcccccg gctcccggcc cgtcagccag ccctgctgcc gaccacgcg ctacgaagcg 360
gtctccttca tggacgtcaa cagcacctgg agaaccgtgg accgcctctc cgccaccgcc 420
tgcggtgcc tgggctgagg gctcgctcca gggctttgca gactggaccc ttaccggtgg 480
ctcttctg 489

```

<210> 15

<211> 350

<212> DNA

<213> Homo sapiens

<400> 15

```

ctgatgggcg ctcttggtgt tgatagagat ggaacttga cttggaggcc tctccacgct 60
gtcccactgc ccctggccta ggcggcagcg gctcctgccg ccgcgcgcgc tctccacacg 120
acctcagcct ggccagccta ctgggcgcgg gggccctgcg accgcccccg ggctcccggc 180
ccgtcagcca gccctgctgc cgaccacgc gctacgaagc ggtctccttc atggacgtca 240
acagcacctg gagaaccgtg gaccgcctct ccgccaccgc ctgcggctgc ctgggctgag 300
ggctcgctcc agggctttgc agactggacc cttaccggtg gctcttcctg 350

```